

AMENDMENTS TO THE CLAIMS

The following list of claims replaces all prior versions and lists of claims:

1. (currently amended) A method for provisioning databases for users on a network, the method comprising the steps of:
a first party managing one or more database systems;
a plurality of second parties subscribing to database services supported by the one or more database systems managed by the first party, wherein the database services include services for storing and managing data provided by the second parties; and
wherein the step of subscribing includes performing a registration process during which said second parties identify database resources for which the second parties are willing to pay;
providing, over the network, to database applications owned and controlled by the second parties ~~and maintained by the first parties~~, access to the database services to which the second parties are subscribed,
wherein the database applications, owned and controlled by the second parties ~~and maintained by the first parties~~, interact with the database systems managed by the first party by sending, from the second parties, to the database systems, over the network, database commands that conform to the database language supported by the database system;

wherein execution of the database commands allows the second parties to
manipulate data objects stored within at least one of the one or more
database systems,

wherein the second parties control the source code of the database applications that
the second parties use to send database commands to the database
management systems managed by the first parties;

delivering to one of said second parties, over the network, one or more messages
which cause generation of user interfaces that allow the second party to
subscribe to said database services provided by said first party; and

delivering over the network, to a user associated with said one of said second
parties, one or more messages which cause generation of user interfaces that
allow the user to access a database for a database service to which said one
of said second parties has subscribed[;]

~~the second parties defining one or more database objects comprising web site~~
~~database components; and~~

~~the database objects generating and inserting code which is sent to the user's~~
~~browser for presentation as a web page;~~

~~wherein the steps of defining one or more database objects and generating and~~
~~inserting code are performed by a web site building wizard.~~

2. (original) The method of claim 1 wherein:
at least one of said second parties is an application service provider that provides
application services to a plurality of third parties over said network; and
the step of providing access to the database services includes providing database
services to an application used by said application service provider to
provide said application services to said third parties.
3. (original) The method of claim 1 further comprising the steps of:
receiving over said network a request to perform a database management operation
from a user associated with a particular second party of said plurality of
second parties; and
responding to said request by performing said database management operation on
one or more databases controlled by said first party without human
intervention by said first party.
4. (cancelled)
5. (original) The method of claim 1 wherein the step of providing access over a
network includes providing access over a public network of computer networks
6. (original) The method of claim 3 wherein the step of performing the database
management operation involves allocating a different amount of resources to said
particular second party than is currently allocated for said particular second party.
7. (cancelled)

8. (previously presented) The method of claim 1 wherein the user interfaces contain controls for specifying user profile information, payment information, and selection of database services.
9. (cancelled)
10. (original) The method of claim 1, wherein:
the first party also provides database application services over said network; and
the method further comprises the step of delivering over the network, to a user
associated with one of said second parties, one or more messages which
cause generation of user interfaces that allow the user to access a database
application service to which said one of said second parties has subscribed.
11. (original) The method of claim 1, further comprising the step of delivering over the
network, to a user associated with one of said second parties, one or more messages
which cause generation of user interfaces that allow the user to indicate changes to
at least one of profile information, payment information, and the selection of
services to which said one of said second parties is subscribed.
12. (original) The method of claim 1, further comprising the step of delivering over the
network, to a user associated with one of said second parties, one or more messages
which cause generation of user interfaces that allow the user to supply content for a
subscribed database.

13. (original) The method of claim 1, further comprising the step of delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that allow the user to develop a new database application.
14. (original) The method of claim 1, further comprising the step of delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that allow the user to integrate an external service.
15. (original) The method of claim 1, further comprising the step of delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that present a status of a user subscribed resource selected from database resources managed by said first party.
16. (currently amended) The method of claim 1, further comprising the steps of:
delivering over the network, to a user associated with one of said second parties,
one or more messages which cause generation of user interfaces that present
the user with a user-selectable representation of [[the]] a web site building
wizard for building a Web page with a database component associated with
an interface to a database;
receiving user input indicating the web site building wizard; and
executing said web site building wizard, including presenting a series of screens to
the user to prompt user input for building the Web page.

17. (original) The method of claim 1, further comprising the step of the first party updating the one or more database systems by receiving from a community server over the network an update to the one or more database systems, wherein the community server provides the update to a plurality of service providers over said network.
18. (original) The method of claim 1, further comprising the step of the first party sending to a community server a status of a user subscribed resource, wherein the user subscribed resource is maintained by said first party.
19. (original) The method of claim 1, further comprising presenting to a user associated with said first party a user interface to allow said first party to configure a database device used to provide said database services as one of a dedicated device and a plurality of virtual devices.
20. (original) The method of claim 1, further comprising presenting to a user associated with said first party a user interface to allow said first party to configure at least one of a dedicated device and a virtual device of a plurality of virtual devices as one of a staging device available only to a database service developer for developing database services, and a production device for making database services available to a user who is not the database service developer.
21. (original) The method of claim 20, further comprising presenting a user interface for transferring an application from a staging device to a production device.

22. (currently amended) The method of claim 1 wherein:
- the step of delivering to one of said second parties ~~a party~~ over the network one or more messages which cause generation of user interfaces that allow the party to subscribe to said database services is performed as part of a registration process;
- the interfaces include controls for receiving a user input value for a maximum amount of subscribed resources; and
- the method further includes the step of presenting an alert if an amount of subscribed resources consumed by said party exceeds a threshold percentage of the maximum amount of subscribed resources.
23. (original) The method of claim 22, further comprising the steps of:
- receiving a user input value for a particular threshold percentage; and
- presenting an alert if an amount of resources consumed by said party exceeds the particular threshold percentage of the maximum amount of subscribed resources.
24. (original) The method of claim 22, wherein the maximum amount of subscribed resources includes a maximum amount of at least one of
- an amount of storage space,
- a number of users connected to a platform in a period of time,
- an amount of processor time used in a period of time, and
- a number of transactions completed in a period of time.

25. (original) The method of claim 12, further comprising the steps of:
presenting to the user a set of selectable sources of content;
receiving user input indicating a selected source; and
launching a source update process to connect to the selected source and update a
database with information received from the selected sources.
26. (original) The method of claim 25, wherein
the user input indicating a selected source also indicates a schedule for updating
from the selected source; and
the source update process connects to the selected source according to the schedule
for updating from the selected source.
27. (original) The method of claim 12, further comprising the steps of:
in response to user input that specifies that data should be loaded into a subscribed
database, determining whether the subscribed database currently exists for
said one of said second parties; and
creating the subscribed database if the subscribed database does not currently exist
for said one of said second parties.
28. (original) The method of claim 13, further comprising the steps of:
presenting representations of selectable application development kits;
receiving user input indicating a selected development kit from the user; and
launching a staging process including

configuring consumable database resources on a staging database device, wherein a staging database device can be accessed by the user for developing the new database application and cannot be accessed by users associated with other parties of said plurality of second parties,
receiving development input from the user; and
building a new application on the staging database device based on the selected development kit and the development input.

29. (original) The method of claim 28, the step of developing the new database application further comprising the steps of
after receiving user input indicating a selected development kit, determining whether a client process of the selected development kit must be downloaded to a computer of the user over the wide area network; and
if it is determined the client process of the selected development kit must be downloaded, downloading the client process to the computer of the user over the wide area network before the step of building the new application.
30. (original) The method of claim 28, the step of developing a new database application further comprising the steps of:
receiving input from the user indicating the new application is ready for operational use; and
in response to receiving input from the user indicating the new application is ready for operational use, launching a production transfer process including sending a request to the first party to transfer the new application to a

production device on which the new application may be accessed by users who did not develop the new application.

31. (original) The method of claim 14, further comprising integrating the external service, wherein the step of integrating comprises the steps of:
presenting a representation of a selectable external service;
receiving user input indicating a selected external service; and
launching an integration process to provide the external service to the user.
32. (original) The method of claim 31, wherein the selectable external service includes at least one of a payment service, a mobile Internet portal, an enterprise resource planning application, and a customer relationship management application.
33. (original) The method of claim 1, further comprising the first party performing at least one of the steps of:
setting up database parameters;
reporting database usage;
backing up the database;
upgrading the database;
controlling database versions;
implementing database security; and
implementing data security within the database.
34. (original) The method of claim 1, further comprising the steps of:
if a costing database does not already exist, then

automatically creating the costing database of database resource usage by user, and
initiating a costing model with price per unit of consumable resource per service;
inserting data into the costing database based on actual use of database resources by
the user;
executing the costing model to compute a cost-per-user based on the data in the
costing database and the price per unit of consumable resource per service;
and
billing the user for the cost computed by the costing model.

35. (previously presented) The method of claim 34, wherein the costing model supports:
fixed price per unit of usage;
variable price per unit usage as a function of usage;
flat price up to a maximum value of usage;
different prices for different users;
different prices for different services; and
different prices for increments of usage above a maximum subscribed usage.
36. (currently amended) A computer-readable medium carrying instructions for provisioning databases for users on a network, the instructions comprising instructions for performing the steps of:
a first party managing one or more database systems;
a plurality of second parties subscribing to database services supported by the one or more database systems managed by the first party, wherein the database

services include services for storing and managing data provided by the second parties; and

wherein the step of subscribing includes performing a registration process during which said second parties identify database resources for which the second parties are willing to pay;

providing, over the network, to database applications owned and controlled by the second parties ~~and maintained by the first parties~~, access to the database services to which the second parties are subscribed,

wherein the database applications, owned and controlled by the second parties ~~and maintained by the first parties~~, interact with the database systems managed by the first party by sending, from the second parties, to the database systems, over the network, database commands that conform to the database language supported by the database system;

wherein execution of the database commands allows the second parties to manipulate data objects stored within at least one of the one or more database systems,

wherein the second parties control the source code of the database applications that the second parties use to send database commands to the database management systems managed by the first parties;

delivering to one of said second parties, over the network, one or more messages which cause generation of user interfaces that allow the second party to subscribe to said database services provided by said first party; and

delivering over the network, to a user associated with said one of said second parties, one or more messages which cause generation of user interfaces that allow the user to access a database for a database service to which said one of said second parties has subscribed[;]

~~the second parties defining one or more database objects comprising web site database components; and~~

~~the database objects generating and inserting code which is sent to the user's browser for presentation as a web page;~~

~~wherein the steps of defining one or more database objects and generating and inserting code are performed by a web site building wizard.~~

37. (original) The computer-readable medium of claim 36 wherein:
at least one of said second parties is an application service provider that provides application services to a plurality of third parties over said network; and
the step of providing access to the database services includes providing database services to an application used by said application service provider to provide said application services to said third parties.
38. (original) The computer-readable medium of claim 36 further comprising instructions for performing the steps of:

receiving over said network a request to perform a database management operation from a user associated with a particular second party of said plurality of second parties; and

responding to said request by performing said database management operation on one or more databases controlled by said first party without human intervention by said first party.

- 39. (cancelled)
- 40. (original) The computer-readable medium of claim 36 wherein the step of providing access over a network includes providing access over a public network of computer networks.
- 41. (original) The computer-readable medium of claim 38 wherein the step of performing the database management operation involves allocating a different amount of resources to said particular second party than is currently allocated for said particular second party.
- 42. (cancelled)
- 43. (previously presented) The computer-readable medium of claim 36 wherein the user interfaces contain controls for specifying user profile information, payment information, and selection of database services.
- 44. (cancelled)

45. (original) The computer-readable medium of claim 36, wherein:
the first party also provides database application services over said network; and
the computer-readable medium further comprises instructions for performing the
step of delivering over the network, to a user associated with one of said
second parties, one or more messages which cause generation of user
interfaces that allow the user to access a database application service to
which said one of said second parties has subscribed.
46. (original) The computer-readable medium of claim 36, further comprising
instructions for performing the step of delivering over the network, to a user
associated with one of said second parties, one or more messages which cause
generation of user interfaces that allow the user to indicate changes to at least one
of profile information, payment information, and the selection of services to which
said one of said second parties is subscribed.
47. (original) The computer-readable medium of claim 36, further comprising
instructions for performing the step of delivering over the network, to a user
associated with one of said second parties, one or more messages which cause
generation of user interfaces that allow the user to supply content for a subscribed
database.

48. (original) The computer-readable medium of claim 36, further comprising instructions for performing the step of delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that allow the user to develop a new database application.
49. (original) The computer-readable medium of claim 36, further comprising instructions for performing the step of delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that allow the user to integrate an external service.
50. (original) The computer-readable medium of claim 36, further comprising instructions for performing the step of delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that present a status of a user subscribed resource selected from database resources managed by said first party.
51. (currently amended) The computer-readable medium of claim 36, further comprising instructions for performing the steps of:
delivering over the network, to a user associated with one of said second parties, one or more messages which cause generation of user interfaces that present the user with a user-selectable representation of [[the]] a web site building wizard for building a Web page with a database component associated with an interface to a database;

receiving user input indicating the web site building wizard; and
executing said web site building wizard, including presenting a series of screens to the
user to prompt user input for building the Web page.

52. (original) The computer-readable medium of claim 36, further comprising instructions for performing the step of the first party updating the one or more database systems by receiving from a community server over the network an update to the one or more database systems, wherein the community server provides the update to a plurality of service providers over said network.
53. (original) The computer-readable medium of claim 36, further comprising instructions for performing the step of the first party sending to a community server a status of a user subscribed resource, wherein the user subscribed resource is maintained by said first party.
54. (original) The computer-readable medium of claim 36, further comprising instructions for presenting to a user associated with said first party a user interface to allow said first party to configure a database device used to provide said database services as one of a dedicated device and a plurality of virtual devices.
55. (original) The computer-readable medium of claim 36, further comprising instructions for presenting to a user associated with said first party a user interface to allow said first party to configure at least one of a dedicated device and a virtual device of a plurality of virtual devices as one of a staging device available only to a database service developer

for developing database services, and a production device for making database services available to a user who is not the database service developer.

56. (original) The computer-readable medium of claim 55, further comprising instructions for presenting a user interface for transferring an application from a staging device to a production device.

57. (currently amended) The computer-readable medium of claim 36 wherein:
the step of delivering to one of said second parties ~~a party~~ over the network one or more messages which cause generation of user interfaces that allow the party to
subscribe to said database services is performed as part of a registration process;
the interfaces include controls for receiving a user input value for a maximum amount of subscribed resources; and
the computer-readable medium further includes instructions for the step of presenting an alert if an amount of subscribed resources consumed by said party exceeds a threshold percentage of the maximum amount of subscribed resources.

58. (original) The computer-readable medium of claim 57, further comprising instructions for performing the steps of:
receiving a user input value for a particular threshold percentage; and
presenting an alert if an amount of resources consumed by said party exceeds the particular threshold percentage of the maximum amount of subscribed resources.

59. (original) The computer-readable medium of claim 57, wherein the maximum amount of subscribed resources includes a maximum amount of at least one of

an amount of storage space,
a number of users connected to a platform in a period of time,
an amount of processor time used in a period of time, and
a number of transactions completed in a period of time.

60. (original) The computer-readable medium of claim 47, further comprising instructions for performing the steps of:

presenting to the user a set of selectable sources of content;
receiving user input indicating a selected source; and
launching a source update process to connect to the selected source and update a
database with information received from the selected sources.

61. (original) The computer-readable medium of claim 60, wherein

the user input indicating a selected source also indicates a schedule for updating from
the selected source; and
the source update process connects to the selected source according to the schedule for
updating from the selected source.

62. (original) The computer-readable medium of claim 47, further comprising instructions for performing the steps of:

in response to user input that specifies that data should be loaded into a subscribed
database, determining whether the subscribed database currently exists for said
one of said second parties; and
creating the subscribed database if the subscribed database does not currently exist for
said one of said second parties.

63. (original) The computer-readable medium of claim 48, further comprising instructions for performing the steps of:
- presenting representations of selectable application development kits;
- receiving user input indicating a selected development kit from the user; and
- launching a staging process including
- configuring consumable database resources on a staging database device, wherein a
- staging database device can be accessed by the user for developing the new
- database application and cannot be accessed by users associated with other
- parties of said plurality of second parties,
- receiving development input from the user; and
- building a new application on the staging database device based on the selected
- development kit and the development input.
64. (original) The computer-readable medium of claim 63, the step of developing the new database application further comprising the steps of
- after receiving user input indicating a selected development kit, determining whether a
- client process of the selected development kit must be downloaded to a computer
- of the user over the wide area network; and
- if it is determined the client process of the selected development kit must be
- downloaded, downloading the client process to the computer of the user over the
- wide area network before the step of building the new application.
65. (original) The computer-readable medium of claim 63, the step of developing a new database application further comprising the steps of:

receiving input from the user indicating the new application is ready for operational use;

and

in response to receiving input from the user indicating the new application is ready for operational use, launching a production transfer process including sending a request to the first party to transfer the new application to a production device on which the new application may be accessed by users who did not develop the new application.

66. (original) The computer-readable medium of claim 49, further comprising instructions for integrating the external service, wherein the step of integrating comprises the steps of:

presenting a representation of a selectable external service;

receiving user input indicating a selected external service; and

launching an integration process to provide the external service to the user.

67. (original) The computer-readable medium of claim 66, wherein the selectable external service includes at least one of a payment service, a mobile Internet portal, an enterprise resource planning application, and a customer relationship management application.

68. (original) The computer-readable medium of claim 36, further comprising instructions for the first party performing at least one of the steps of:

setting up database parameters;

reporting database usage;

backing up the database;

upgrading the database;

controlling database versions;
implementing database security; and
implementing data security within the database.

69. (original) The computer-readable medium of claim 36, further comprising instructions for performing the steps of:
- if a costing database does not already exist, then
 - automatically creating the costing database of database resource usage by user, and
 - initiating a costing model with price per unit of consumable resource per service;
 - inserting data into the costing database based on actual use of database resources by the user;
 - executing the costing model to compute a cost-per-user based on the data in the costing database and the price per unit of consumable resource per service; and
 - billing the user for the cost computed by the costing model.
70. (previously presented) The computer-readable medium of claim 69, wherein the costing model supports:
- fixed price per unit of usage;
 - variable price per unit usage as a function of usage;
 - flat price up to a maximum value of usage;
 - different prices for different users;
 - different prices for different services; and
 - different prices for increments of usage above a maximum subscribed usage.
71. (currently amended) A method, comprising:

an internet database service provider (IDSP) managing one or more database systems;
a plurality of intermediate providers subscribing to database services supported by the
one or more database systems managed by the IDSP, wherein the database
services include services for storing and managing data provided by the
intermediate providers; and
providing, over the network, to database applications owned and controlled by the
intermediate providers and maintained by the IDSP, access to the database
services to which the second parties are subscribed;
wherein the database applications, owned and controlled by the intermediate providers
and maintained by the IDSP, interact with the database systems managed by the
IDSP by sending, from the intermediate providers, to the database systems, over
the network, database commands that conform to the database language
supported by the database system;
delivering over the network, to a user associated with one of said intermediate providers,
one or more messages which cause generation of user interfaces that allow the
user to access a database for a database service to which said one of said
intermediate providers has subscribed;
the intermediate providers defining one or more database objects comprising web site
database components;
the database objects generating and inserting code which is sent to a user's browser for
presentation as a web page;

wherein the steps of defining one or more database objects and generating and inserting code are performed by a web site building wizard

an internet database service provider (IDSP) party managing one or more database systems;

a plurality of second parties subscribing to database services supported by the one or more database systems managed by the IDSP, wherein the database services include services for storing and managing data provided by the second parties;

and

wherein the step of subscribing includes performing a registration process during which said second parties identify database resources for which the second parties are willing to pay;

providing, over the network, to database applications owned and controlled by the second parties, access to the database services to which the second parties are subscribed,

wherein the database applications, owned and controlled by the second parties, interact with the database systems managed by the IDSP by sending, from the second parties, to the database systems, over the network, database commands that conform to the database language supported by the database system;

wherein execution of the database commands allows the second parties to manipulate data objects stored within at least one of the one or more database systems,

wherein the second parties control the source code of the database applications that the second parties use to send database commands to the database management systems managed by the IDSP;

delivering to one of said second parties, over the network, one or more messages which
cause generation of user interfaces that allow the second party to subscribe to
said database services provided by the IDSP; and

delivering over the network, to a user associated with said one of said second parties,
one or more messages which cause generation of user interfaces that allow the
user to access a database for a database service to which said one of said second
parties has subscribed.

72. (currently amended) The method of claim 71, wherein one of the plurality of ~~intermediate providers~~ second parties is an Internet Service Provider (ISP).
73. (currently amended) The method of claim 71, wherein one of the plurality of ~~intermediate providers~~ second parties is an Application Service Provider (ASP).